

THE ZOOLOGIST.

A MONTHLY JOURNAL

OF

NATURAL HISTORY.

THIRD SERIES—VOL. III.

EDITED BY

J. E. HARTING, F.L.S., F.Z.S.,

MEMBER OF THE BRITISH ORNITHOLOGISTS' UNION.

DELECTANDO PARITERQUE MONENDO.

LONDON:

JOHN VAN VOORST, 1, PATERNOSTER ROW.

1879.

e
th
E

P
e
e
b
M
fo
re
P
A
fo
th
re
m
k
b
W
w
la
an

re
th
M
fo
an

ap

PREFACE.

GRATITUDE has been defined as a lively sense of favours to come, and this definition not inaptly indicates the feelings of the Editor on taking up his pen to indite a few lines by way of Preface to the volume for 1879.

Many articles of interest and value have appeared during the past year. Capt. Feilden's "Notes from an Arctic Journal," commenced in the preceding volume, have been brought to a conclusion, and furnish an excellent *resumé* of the work done by the naturalists to the last English Arctic Expedition. Mr. Ussher's "Discovery of an Ossiferous Cavern in Waterford," and the account which he has given of the animal remains brought to light there, will be very acceptable to palæontologists. Dr. Murie's instructive article "On Nocturnal Animals," with illustrations of some of the more singular forms, deals with a subject not previously dwelt upon in this journal. On the subject of British Martens, Mr. Alston's remarks (p. 441) suggest a new field of enquiry to those who may have opportunities of examining the skulls of any British-killed specimens; and while many other excellent papers have been furnished by field naturalists of the sterner sex, Miss Warren has shown by her article "On the Land and Fresh-water Shells of Mayo and Sligo" to what good account ladies may turn their opportunities, if residing in the country and possessing a taste for Natural History.

In a different field of research, Mr. Cornish has given the result of his study of a rare British Crustacean obtained on the coast of Cornwall, and now figured (p. 473) for the first time. Mr. Wolf's charming sketch of the Woodcock and young (p. 433) for truthful delineation will commend itself alike to naturalists and sportsmen.

Amongst the translations from foreign journals which have appeared in the pages of 'The Zoologist' during the past year

that by Herr Meves, "On the Change of Plumage in Birds," translated by Mr. Dresser (p. 81), is most suggestive, and is rendered all the more instructive by the two coloured plates of feathers (magnified) which accompany it. The interesting account furnished, by the Brothers Sintenis, of the breeding of the Pelican in the Danube Delta supplies a blank in the history of a species about whose nesting habits very little was known. Nor should the remarkable discovery by Dr. Dodel-Port of the fertilisation of sea-weeds by *Animalculæ* be overlooked, seeing that his illustrated article forms the first record of the participation of animals in the fertilisation of cryptogams, and furnishes an interesting parallel to the relations existing between insects and phanerogams.

But while mindful of these and other valuable communications received during the year, the Editor has nevertheless to observe with regret that 'The Zoologist' is not receiving, either from contributors or subscribers, that support which, without presumption, may be said to be due to a journal of such long standing. He has therefore earnestly to request all who feel interested in the study which it is the object of this journal to promote, to assist its circulation not only by recommending it to their acquaintance, but to aid his efforts by contributing articles to its pages. This request is made with the greater confidence because 'The Zoologist' is carried on by the proprietor, Mr. Newman, not as a source of profit, but in the interest of science, and at a loss to himself; and the Editor feels assured that he has only to make this appeal in order to receive from the many readers of 'The Zoologist' their hearty co-operation in the way which he has suggested.

On his part he promises to do all in his power to make it an efficient representative of zoological science, and especially of that part of the science which is advanced by out-door work—the observation in the field of the habits of animals. In this department he trusts that 'The Zoologist' may never fall away from the position it has taken since its first establishment in 1843; for were such to be the case it would indicate a declining interest in the most fascinating branch of Natural History.

J. E. H.

CONTENTS.

ALPHABETICAL LIST OF CONTRIBUTORS.

- ADAMSON, C. M.
Variety of the Sanderling, 460
- ALSTON, E. R., F.L.S., F.Z.S.
On British Martens, 441
- APLIN, O. V.
Skuas and Cormorant in Oxfordshire, 490
- ARMBRUSTER, CARL
A visit to a breeding-place of the Pelican in the Danube-Delta of the Dobrudscha (from the German), 243; On the fertilisation of red sea-weeds by *Animalculæ* (from the German), 393
- BACKHOUSE, J., JUN.
Uncommon birds at Barmouth, 458; Supposed nesting of the Redwing near York, 460
- BEALE, ARTHUR
Late nesting of the Yellowhammer, 490
- BECKWITH, WILLIAM E.
Ring Ouzel wintering in England, 266
- BENSON, Rev. CHARLES W., L.L.D.
Notes from Dublin, 131; Spotted Crake in County Down, 458
- BOND, FREDERICK, F.Z.S.
Bullfinches eating privet-berries, 220: An albino Weasel, 455
- BOOTH, E. T.
Habits of the Kite as observed in Scotland, 58
- BRAIKENRIDGE, Rev. G. W.
Little Owl in Somersetshire, 32
- BRIGGS, T. R. ARCHER, F.L.S.
Bullfinch eating privet-berries, 181; Wrens nesting in vacant nests of House Martins, 182
- BROTHERSTON, ANDREW
Mortality amongst Shrews, 173; White's Thrush in Berwickshire, 177
- BUCHANAN, J. H.
Great Spotted Woodpecker in Perthshire, 268
- BUTTERFIELD, E. P. P.
Nesting of the Pied Flycatcher, 132; Great Grey Shrike in Yorkshire, 136; Hawfinch nesting in Yorkshire, 180; Alleged destruction of Larks' eggs by Starlings, 181; Montagu's Harrier nesting in Yorkshire, Goosander in Yorkshire, 220; Migration of House Martins, 340; Nesting habits of the Starling, 341
- CAMBRIDGE, Rev. O. PICKARD, M.A.
Roe-deer in Dorsetshire, 209, 263; Stoat in ermine dress, 264; Song of the Ring Ouzel, 267; Fieldfares in May, 268; Oystercatcher in Portland during the breeding season, 304; *Coronella lævis* in Dorsetshire, 461
- CARRINGTON, JOHN T.
Occurrence of the Boar-fish, 342
- CHAMBERS, C. E. S.
Birds on the East Lothian coast in February, 175
- CHASE, ROBERT W.
White-tailed Eagle in the Lewes, 220; Golden Eagle in the Lewes, 382
- CHOLMONDELEY, R.
Great Skua near Shrewsbury, 134
- CHRISTY, R. M.
Starlings rearing two broods in a season, 218
- CLARK-KENNEDY, ALEXANDER, F.G.S.
Golden Oriole in County Donegal, 306; Large Pike in Galloway, 307
- CLIFTON, Lord
Note on White's Thrush, 177; Probable occurrence of *Emberiza*

- cæsia in England, 180; Fire-crest and Great Grey Shrike at Brighton, 181
- COOPER, Lieut.-Col. EDWARD H.
Attempted introduction of the Nut-hatch into Ireland, 424
- CORBIN, G. B.
Roosting habits of the Starling, 215
- CORDEAUX, JOHN
On the autumn migration of birds in 1878, 41; Further notes on migration, 126; Spring call of the Knot, 178; Boar-fish at the mouth of the Humber, 342; Ornithological notes from North Lincolnshire, 371
- CORNISH, THOMAS
Large Pilchard, 62; Pilot-fish and Short Sun-fish in Mount's Bay, Cornwall, 306; Sword-fish on the Cornish coast, 307; On some little-known Fishes and Crustacea, 473
- COX, H. L., M.B.
The birds of Dublin and Wicklow, 449, 477
- CULLINGFORD, J.
Eagle Owl in Lincolnshire, 306
- CURTIS, EDWARD
Scoter on the Thames, 220
- DALE, C. W.
Roe-deer and Marten-cat in Dorsetshire, 170; Roe-deer in Dorsetshire, 301
- DAIGLEISH, J. J.
Hoopoe in Fifeshire, 268
- DIXON, CHARLES
Starling destroying Larks' eggs, 31
- DOHRN, Professor ANTON
Zoological Station at Naples, 455
- DRESSER, H. E., F.Z.S.
On the change of colour in birds, through and irrespective of moulting (translated from the Swedish of W. Meves), 81
- D'URBAN, W. S. M.
Red Band-fish at Exmouth, 183; Bank Vole near Exeter, 264; Boar-fish at Exmouth, 269; Red Field Vole in Devonshire, 487; Capture of a Torpedo, or Cramp Ray, at Beer, Devon, 491
- DURNFORD, W. ARTHUR
Black Rats in North Lancashire, 334; Gulls breeding in Westmoreland, 339
- EDWARD, THOMAS, A L.S.
Waxwing at Banff, 217; Deal fish on the Banffshire coast, 220
- EVANS, A. H.
Early nesting of the Water Rail, 268
- FEILDEN, H. W., F.G.S., C.M.Z.S.
The Natural History of Prince Albert Land, 1; Notes from an Arctic Journal, 16, 50, 89, 162, 200; The land and fresh-water Mollusca of the Maltese group, 193; Fulmar Petrel breeding in the Isle of Foula, 422; Grebes occurring in the Færoe Islands, 457
- FISHER, LIONEL P.
Large flight of Swifts, 382
- FLEMING, WILLIAM W.
Observations on egg-blowing, 178
- GARRIOCK, J.
Fulmar Petrel breeding in the Isle of Foula, 380
- GATCOMBE, JOHN
Hybrid Pheasant and Blackcock, 60; Ornithological notes from Devon and Cornwall, 112, 205, 418; Stoats and the late severe weather, 122; Large Rorqual on the coast of Cornwall, 124; Stoats in ermine dress, 208; Fox Shark, or "Thresher," off the coast of Devon, 383; Boar-fish on the Devonshire coast, 429; Boar-fish off Plymouth, 401
- GOUGH, THOMAS
Vital tenacity of *Succinea putris*, 62
- GREGSON, C. S.
Sabine's Snipe in Lancashire, 30
- GUNN, T. E.
Boar-fish at Eastbourne, 507; Golden Oriole in Suffolk, 341; Monster Bream in Norfolk, 342
- GURNEY, J. H., F.Z.S.
Weasel assuming a white winter coat, 30; Note on Shrews observed in Norfolk, 125; Snipe

- catching in Dorsetshire, 181; Stoats assuming the ermine dress, 208; Martens in Norfolk and Suffolk, 210; Anecdote of the Spotted Flycatcher, 334; Sword-fish on the Norfolk coast, 342; On the presumed mention of the Hoopoe, A.D. 1395, 379; "Nynmurder" a name for the Butcher-bird, 488
- GURNEY, J. H., jun., F.Z.S.
 Little Auk near Norwich, 31; Sclavonian Grebe near Cromer, 181; Ornithological notes from St. Leonards, 376; Green-backed Porphyrio at Barton, 458; Shore birds on the Norfolk coast, 460; Extraordinary assemblage of Short-eared Owls, 490
- HADFIELD, Capt. HENRY
 Honey Buzzard in the Isle of Wight, 39; Rare birds in the Isle of Wight, 182; Bullfinch eating privet-berries, 319; Winter visitants and spring migrants to the Isle of Wight, 304; Summer migrants in the Isle of Wight, 334; Habits of the House Sparrow, 381; Nesting habits of the Starling, 382; Wild Geese in the Isle of Wight in June, 383
- HAMILTON, EDWARD, M.D., F.L.S.
 Birds in Hyde Park, 32; Rookeries of London, 268; The birds of London—past and present, residents and casuals, 273
- HAMILTON, W. J.
 Curious haunt for a Snipe, 135; Hawfinch in Ireland, 136
- HARDING, Rev. ISAAC, M.A.
 Varieties of the Hedgehog, Badger and Mole, 172; Rare visitors to the Malvern Hills, 174
- HART, H. CHICHESTER, F.L.S.
 Wood Wren in the County of Wicklow, 341
- HARTING, J. E., F.L.S., F.Z.S.
 Black-throated Wheatear in Lancashire, 30; The Squirrel in Scotland, 122; White's Thrush in Berwickshire, 133; Esquimaux Curlew in Aberdeenshire, 135; Close time for fresh-water fish, 136; On the Ring Ouzel wintering in England, 203; "The Fenland"—Isicii, 222; Animal life at the Royal Academy, 233; Cormorants on the Dorsetshire coast, 266; Early mention of the Hoopoe as a British bird (A.D. 1395), 337; The Great Bustard formerly in Lincolnshire, 340; A Fox chase in London, Early mention of the Hoopoe as a British bird, 379; Night Heron in Scotland, 382; Black Tern on the Thames, 383; Late stay of Swifts, 423; Discovery of the eggs of the Curlew Sandpiper, 425; Tawny Owl nesting in a burrow, 427; On some little-known habits of the Woodcock, 433; Origin of the name "Puss," 487; Changing the colours of feathers in live birds, 489
- HORN, WILLIAM
 Hawfinches flocking in winter, 181
- HUTCHINSON, PROCTER S.
 Rabbit swimming, 210
- JEFFERY, WILLIAM
 Ornithological notes from West Sussex, 109
- KERRY, F.
 Winter visitants at Harwich, 182; Late stay of Brent Geese at Harwich, Black Redstart in Essex, 306; Immigration of Rooks and other birds at Harwich, 459
- LILFORD, Right Hon. Lord, F.L.S.
 Green Shag in Northamptonshire, Manx Shearwater in Northamptonshire, 426; Common Scoter in Northamptonshire, 427
- LUCAS, JOSEPH, F.G.S.
 The naturalist in Nidderdale, 353, 403
- LUMSDEN, JAMES
 Nesting of the Tufted Duck in Scotland, 180
- MANSEL-PLEYDELL, J. C., F.L.S.
 The Roe-deer in Dorsetshire, 120; Reeve in Dorsetshire in December, 134; Marten-cat in Dorset-

- shire, 171; Ferruginous Duck in Dorsetshire, 183; *Coronella laevis* in Dorsetshire, 184; Roe-deer in Dorsetshire, 282; Cormorants on the Dorsetshire coast, 302
- MATHEW, REV. MURRAY A., M.A.
Ornithological notes from Somersetshire, 127; Bewick's Swan in Somersetshire, 173; Dotterel in North Devon, 490
- MAWSON, GEORGE
Goosander and Little Grebe in Cumberland, 182
- MITCHELL, F. S.
Natural History notes in Holland, 9; Wagtails observed in Holland, 132; An erroneous breeding-haunt assigned to the Bearded Tit, 305
- MURIE, JAMES, M.D., LL.D., F.L.S.
On nocturnal animals, 313
- MURTON, JAMES
Mortality amongst Shrews, 124
- NELSON, T. H.
Ornithological notes from Redcar, 211; Shoveller and Bar-tailed Godwit at Redcar, 488; Fulmar Petrel at Redcar, 490; A white Puffin, 491
- NORGATE, FRANK
Marten-cat in Norfolk, 172
- OGILVIE, F. M.
Glaucous Gull at Aldeburgh, 135; Ornithological notes from Thorpe, 265
- PALMER, J. E.
Rooks eating small birds, 134
- PARKER, CHARLES A., M.D.
Wildfowl in West Cumberland, 60; Ornithological notes from West Cumberland, 116, 488; Marten-cat in Cumberland, 171; Martens in Cumberland, 264
- PENGELLY, W., F.R.S., F.G.S.
Boar-fish at Torquay, 269
- PENNEY, W.
Boar-fish on the Dorsetshire coast, 221
- PIKE, T. M.
Wildfowl in the Poole district, 213; Cormorants on the Dorsetshire coast, 302; Surf Scoter in Orkney, 335
- PILLEY, J. H.
Honey Buzzard nesting in Herefordshire, 132
- PRIOR, C. MATTHEW
Ornithological notes from Oxfordshire, 129; Breeding of the Otter, Albino Hedgehog, 172; Rare birds in Bedfordshire, 175; Nesting of the Grey Wagtail in Oxfordshire, 179; Little Stint and other birds in Sheppey, 216; Polecat in Bedfordshire, 264; Slavonian Grebe in Bedfordshire, 267; Nesting of the Stock Dove, 338; Barn Owls and Shrew Mice, 341; Hobby and Common Scoter in Bedfordshire, 426; Grey Wagtail gregarious at roosting time, 427; Manx Shearwater in Oxfordshire and Northamptonshire, 457; Grey Phalarope in Bedfordshire, 459; Scoter and Shag in Northamptonshire, 489
- PURNELL, W.
The Great Skua in Shetland, 455
- REID, CAPT. S. G., R.E., F.Z.S.
Nesting of Blackgame in Wolmer Forest, 425; Adder taking possession of a nest, 429
- ROBSON, JOHN E.
The mammals of Shakspeare, 124
- RODD, EDWARD HEARLE
Great Plover, or Thick-knee, at the Scilly Isles, 61; The past shooting season at the Scilly Isles, 130; Sea birds breeding at Scilly, 380; Long-tailed Duck in Cornwall, 487; Shore Lark in Cornwall, 489; Hen Harrier at Scilly, 491
- ROPE, G. T.
Cole Tit nesting in the ground, 134; Otters in Suffolk, 301
- RUSSELL, ALEXANDER J.
Sturgeon in the Thames and Medway, 383
- SMITH, JOHN M.
Merlin and other birds in Midlothian, 220

- SOUTHWELL, THOMAS
 Young Otter in December, 122;
 White-beaked Dolphin at Yarmouth, 421; Rare fish on the Norfolk and Suffolk coast, 491
- STAMPER, WALTER
 Grouse quitting the moors in Yorkshire, 135
- STERLAND, W. J.
 Alpine Swift at Finchley, Middlesex, 489
- STEVENSON, HENRY, F.L.S.
 Ornithological notes from Norfolk for 1878, 153
- TOMLINSON, H. G.
 Disappearance of Sky Larks, 31;
 Kingfisher feeding on Newts, 32;
 Wrens roosting, 135
- TUCK, Rev. JULIAN, M.A.
 Ornithological notes from Aldeburgh, 301
- USSHER, RICHARD J.
 American Summer Duck in the County of Waterford, 217; Suggestions on egg-blowing, 218;
 On the discovery of an ossiferous cavern near Cappagh, Co. Waterford, 331
- VAUGHAN, M.
 Distribution of the Carrion Crow, 459; Reported nesting of the Golden Eagle in Shetland, 461
- WALLIS, H. M.
 Otters and Badgers in Berkshire, 263; Former occurrence of the Marten in Essex, 264; Ring Ouzel nesting in Essex, 267
- WALTERS, R.
 Kingfishers in London, 383
- WARREN, AMY
 The land and fresh-water Mollusca of Mayo and Sligo, 25
- WARREN, ROBERT
 Wildfowl in County Mayo, 126;
 The effect of severe frost on animal life, as observed in the County Mayo, 291
- WHARTON, C. BYGRAVE, F.Z.S.
 Blue Tit nesting in the ground, 219
- WHITTAKER, J.
 Rare birds in Nottinghamshire, 131; Uncommon birds in Nottinghamshire, 459; Bee-eater in Derbyshire, 461
- WINN, CHARLES
 Pine Marten in Lincolnshire, 420
- YOUNG, J.
 Cole Tit nesting on the ground, 32
- YOUNG, LAMBTON
 Rookeries of London, 268

ALPHABETICAL LIST OF SUBJECTS.

- Accentor modularis*, 277
Accipiter nisus, 275
Acicula acicula, 199
Acrocephalus arundinaceus, 12
 „ *palustris*, *id.*
 Adamson, C. M., 'Natural History Scraps' (review), 391
 Adder taking possession of a nest, 429
Alauda alpestris, 5
 „ *arvensis*, 280
Alcedo ispida, 289
 'Alert,' voyage of the, to the Straits of Magellan, 119
Alexia myosotis, 199
 'Amateur Poacher, the' (review), 493
 'America, South, Wanderings in' (review), 143
Anas boschas, 290
Ancylus fluviatilis, 29, 199
Animalculæ, fertilisation of red seaweeds by, 393
 Animal life at the Royal Academy, 233; effect of severe frost on, in County Mayo, 291
 Animals, on nocturnal, 313
Anodon cygnea, 28
Anser albifrons, 8
 „ *berniciæ*, 9
 „ *Hutchinsii*, *id.*
 „ *hyperboreus*, *id.*

- Antelope, Saiga, existence of in France during the Reindeer age, 209
- Anthus arborea*, 280
 „ *pratensis*, *id.*
- Arion ater*, 25
 „ *hortensis*, *id.*
- Arvicola hudsonius*, 4
 „ *trimucronatus*, *id.*
- Atelecyclus heterodon*, 477
- Auk, Little, near Norwich, 31
- Auks, Little, 158
- Aves, 4
- Azeca follicula*, 199
- Badgers in Berkshire, 263
- Balia perversa*, *vel fragilis*, 27
- Band-fish, Red, at Exmouth, 183
- Bat, Collared Fruit, 324
- Bearded Titmouse, erroneous breeding-haunt assigned to the, 305
- Bee-eater in Derbyshire, 461
- Birds in Hyde Park, 32; autumn migration of in 1878, 41; change of colour in, through and irrespective of moulting, 81; rare, in Nottinghamshire, 131; Rooks eating small, 134; on the East Lothian coast in February, 175; rare, in Bedfordshire, 175; rare, in the Isle of Wight, 182; of London, past and present, residents and casuals, 273; sea, breeding at Scilly, 380; of Dublin and Wicklow, 449, 477; uncommon, at Barmouth, 458; in Nottinghamshire, 459; immigration of at Harwich, *id.*: shore, on the Norfolk coast, 460; live, changing the colours of feathers in, 489
- ‘Birds of Guernsey and the Neighbouring Islands’ (review), 387
- ‘Birds of the Colorado Valley’ (review), 190
- Bittern, 153
- Bivalves (Conchifera), 28
- Blackbird, 276, 450; singular habit in a, 155
- Blackcap, 279
- Blackcock and Pheasant, hybrid, 60
- Blackgame nesting in Wolmer Forest, 425
- Boar-fish on the Dorsetshire coast, 221; at Exmouth, 269; at Torquay, *id.*; at Eastbourne, 307; at the Mouth of the Humber, 342; on the S. and S.E. coasts of England, 342; on the Devonshire coast, 429; off Plymouth, 461
- Botaurus stellaris*, 12
- Bramblings, 159
- Bream, monster, in Norfolk, 342
- Breeding of the Otter, 172; of sea birds at Scilly, 380; of the Fulmar Petrel in the Isle of Foula, 380, 422
- Brown, J. A. Harvie, ‘The Capercaillie in Scotland’ (review), 468
- Bulimus*, genus, 199
- Bulimus acutus*, 27
- Bullfinch, 284; eating privet-berries, 181, 219, 220; in Dublin, 453
- Bunting, Black-headed, 158, 453
 „ Common, 281, 453
 „ Snow, 453
- Bustard, Great, in Lincolnshire, 340
 „ Little, 154
- Butcher-bird, “Nynmurder” a name for the, 488
- Buteo lagopus*, 5
- Buzzard, Common, 449
 „ Honey, in the Isle of Wight, 32; nesting in Herefordshire, 132
- Bythinia tentaculata*, 28
- Calidris arenaria*, 6
- Cambridge, Rev. O. P., ‘The Spiders of Dorset’ (review), 470
- Canis lagopus*, 4
- ‘Capercaillie in Scotland’ (review), 468
- Caprimulgus europæus*, 289
- Carduelis elegans*, 284
 „ *spinus*, *id.*
- Carychium minimum*, 27
- Carystes cassivelaunus*, 477
- ‘Cattle, Wild White, of Great Britain’ (review), 356
- Cavern, ossiferous, near Cappagh, Co. Waterford, 331
- Cepola rubescens*, 183
- Certhia familiaris*, 279, 288
- Cervus tarandus*, 4
- Chaffinch, 281, 453

- "Challenger," Notes by a Naturalist on the' (review), 224
Charadrius semipalmatus, 6
 „ *virginicus*, *id.*
Chiffchaff, 279, 451
Circus æruginosus, 13
 „ *? hudsonius*, 5
Clausilia bidens, 198
 „ *mamotica*, *id.*
 „ *rugosa*, *vel nigricans*, 27
 „ *scalaris*, 198
 „ *syracusana*, *id.*
Coccothraustes chloris, 284
 „ *vulgaris*, *id.*
Cochlicopa lubrica, 27
Coleoptera, 15
Columba palumbus, 289
Colymbus arcticus, 8
 „ *glacialis*, *id.*
 „ *septentrionalis*, *id.*
Coot, 290, 481
Cormorant, 484; in Oxfordshire, 490
Cormorants on the Dorsetshire coast, 266, 302, 303
Coronella lævis in Dorsetshire, 183, 461
Corvus corax, 6, 285
 „ *cornix*, 286
 „ *corone*, *id.*
 „ *frugilegus*, *id.*
 „ *monedula*, 287
Crake, Baillon's, 11
 „ *Spotted*, in Co. Down, 458
Creeper, Common, 288
 „ *Tree*, 279, 454
Crossbill, 159
Crow, Carrion, 286, 451, 459
 „ *Hooded*, 286, 452
Crustacea and fishes, on some little-known, 473
Cuculus canorus, 289
Curlew, 477
 „ *Esquimaux*, in Aberdeenshire, 135
Cyclostoma melitense, 196
Cygnus americanus, 9
Cynonycteris collaris, 324
Cypselus apus, 289

Dabchick, 483
Daulias lusciniæ, 277
Deal-fish on the Banffshire coast, 220
Dickens, Charles, 'A Dictionary of the Thames' (review), 472
Diver, Black-throated, 484
 „ *Great Northern*, *id.*
 „ *Red-throated*, 483
Dolphin, White-headed, at Yarmouth, 421
Doris tuberculata, 477
Dotterel in North Devon, 490
Dove, Ring, 289, 477
 „ *Stock*, nesting of, 338
Duck, American Summer, in County Waterford, 217
 „ *Ferruginous*, in Dorset, 182
 „ *Goldeneye*, 154
 „ *Long-tailed*, 158, 487
 „ *Tufted*, 157, 482; nesting in Scotland, 180
 „ *Wild*, 290, 482
Dunlin, 479
Dyer, Rev. F. T. Thiselton, 'English Folk-Lore' (review), 150

Eagle, Golden, in the Lewes, 382; reported nesting of in Shetland, 461
 „ *White-tailed*, in the Lewes, 220
Egg-blowing, observations on, 178; suggestions on, 218
Eggs, Larks', Starlings destroying, 31, 181; of the Curlew Sandpiper, discovery of, 425
Eider, 483
Elk, Irish, remains of in the County Waterford, 301
Emberiza cæsia, 180
 „ *lapponica*, 6
 „ *miliaria*, 281
 „ *nivalis*, 5
Entomological Society of London, proceedings of, 38, 66, 142, 188, 270, 310, 347, 431, 462
Erythaca rubecula, 277

Falco peregrinus, 5, 274, 449
 „ *tinnunculus*, 275
 'Fenland, Past and Present' (review), 69
Fenland, the, 222
Fieldfare, 276, 450
Fieldfares in May, 268
Firecrest at Brighton, 181

- Fish, freshwater, close-time for, 136 :
 rare, on the Norfolk and Suffolk
 coast, 491
 Fishes and Crustacea, on some little-
 known, 473
 Flycatcher, Pied, nesting of, 132
 " Spotted, 275, 334, 451
 'Folk-Lore, English' (review), 150
 Fox chase in London, 379
 Fringilla cœlebs, 281
 Frost, severe, effect of on animal life
 in County Mayo, 291
 Fulica atra, 290

 Galathea Andrewsii, 477
 Gallinula chloropus, 290
 Gannet, 485
 Garrod, Professor, death of, 462
 Geese, Brent, late stay of, 306
 " Wild, in the Isle of Wight in
 June, 383
 Goatsucker, 454
 Godwit, Bar-tailed, 478, 488
 Goldeneye, 483
 Goldfinch, 284, 452
 Goosander in Cumberland, 182; in
 Yorkshire, 220; in Ireland, 483
 Goose, Brent, 482
 " White-fronted, 481
 Grebe, Crested, 483
 " Little, 182, 291
 " Slavonian, 181, 267
 Grebes in the Færoe Islands, 457
 Greenfinch, 284, 452
 Greenfinches, 153
 Greenshank, 479
 Grouse, 477; quitting the moors in
 Yorkshire, 135
 Grus canadensis, 6
 Guillemot, 484
 " Black, *id.*
 Gull, Black-headed, 486
 " Common, 291, 486
 " Glaucous, 135, 486
 " Great Black-backed, 486
 " Herring, *id.*
 " Lesser Black-backed, *id.*
 " Little, *id.*
 Gulls breeding in Westmoreland, 339

 Habits of the Kite, as observed in
 Scotland, 58; of the House Sparrow,
 381; on some little-known, of the
 Woodcock, 433
 Harelda glacialis, 9
 Harrier, Hen, at Scilly, 491
 " Marsh, 13, 155
 " Montagu's, nesting in York-
 shire, 220
 Harting, J. E., and J. de Mosenthal,
 'Ostriches and Ostrich Farming'
 (review), 496
 Hawfinch in Ireland, 136; nesting in
 Yorkshire, 180
 Hawfinches, 159; flocking in winter,
 181
 Heath, F. G., 'Our Woodland Trees'
 (review), 230
 Hedgehog, albino, 172
 Hedgesparrow, 277
 Helicidae, 26
 Helix aculeata, *id.*
 " aperta, 196
 " aspersa, 26, 196
 " candidissima, 197
 " caperata, 26
 " cellaria, 198
 " cespitum, 197
 " conspurcata, *id.*
 " Erdelii, 198
 " ericetorum, 27
 " hispida, 26
 " lenticula, 197
 " meda, *id.*
 " melitensis, *id.*
 " nemoralis, 26
 " pisana, 197
 " pulchella, 27
 " pygmæa, *id.*
 " pyramidata, 197
 " rotundata, 27
 " rufescens, 26
 " rupestris, 27
 " Schembrii, 197
 " sericea, 26
 " Spratti, 197
 " striata, *id.*
 " trochoides, *var., id.*
 " vermiculata, *id.*
 Heron, Common, 477
 " Night, in Scotland, 382
 " Purple, 159
 Hirundo bicolor, 5
 " riparia, 289

- Hirundo rustica*, 289
 „ *urbica*, *id.*
 Hobby in Bedfordshire, 426
 Hoopoe in Fifeshire, 268; early mention of as a British bird, 337, 379
 'Hunting Expedition to the Transvaal' (review), 384
 Hybrid Pheasant and Blackcock, 60
Hydrochelidon nigra, 10, 383
Hymenoptera, 15

 Insects which injure books, 430

 Jackdaw, 287, 452

 Kestrel, 275, 449
 Kestrels, curious capture of a pair of, 154
 Kingfisher, 289, 454; feeding on Newts, 32
 Kingfishers and the floods, 158; in London, 383
 Kite, 275; habits of the, as observed in Scotland, 58
 Kittiwake, 291, 487
 Knot, 479: spring call of the, 178

Lamellibranchiata, 28
 Landrail, 481
Lanius excubitor, 275
 Lark, Shore, 153; in Cornwall, 489
 „ Sky, 280, 454
 Larks, Sky, disappearance of, 31; Starlings destroying eggs of, *id.*; extraordinary flight of, 280
Larus argentatoides, 7
 „ *argentatus*, *id.*
 „ *canus*, 291
 „ *eburneus*, 8
 „ *glaucus*, 7
 „ *Sabinii*, 8
 „ *tridactylus*, 291
Lepidogaster cornubiensis, 477
Leptodora, occurrence of in England, 429
Lepus glacialis, 4
Lestris Buffonii, 8
 „ *pomarinus*, *id.*
Limacidae, 25
Limax, genus, 196
Limax agrestis, 25
 „ *arboreum*, 26

Limax gagates, 25
 „ *marginatus*, *id.*
 „ *maximus*, 26
Limnæa palustris, 29
 „ *peregra*, *id.*
 „ *stagnalis*, *id.*
 „ *truncatulus*, *id.*
Limneus, *var.*? 199
Limnæidæ, 29
 Limpet, river, *id.*
Linaria canescens, 5
 „ *minor*, *id.*
 Linnean Society of London, proceedings of, 34, 64, 137, 184, 222, 307, 343, 492
 Linnet, 284, 452
Linota cannabina, 284
 „ *linaris*, *id.*
Locustella luscinioides, 13
Lupus griseus, 4

Macrorhamphus griseus, 290
 Magellan, Straits of, voyage of the 'Alert' to the, 119
 Magpie, 155, 157, 288, 452
 Mammalia, 4
 Mammals of Shakespeare, 124
Marinula forminii, 199
 Marten, Beech, description of, 443
 „ Pine, description of, *id.*; in Lincolnshire, 420
 Marten-cat in Dorsetshire, 170, 171; in Cumberland, 171; in Norfolk, 172
 Martens in Norfolk and Suffolk, 210; in Cumberland, 264; in Essex, *id.*; British, Mr. E. R. Alston on, 441
 Martin, 289
 „ House, 454
 „ Sand, 289, 454
 Martins, House, nesting of, 157; Wrens roosting in vacant nests of, 182; migration of, 340
 Merganser, Red-breasted, 483
 Merlin, 449; in Midlothian, 220
 Mice, Shrew, and Barn Owls, 341
 Migrants, arrival and departure of, 156, 160; raptorial, 160; spring, and winter visitants to the Isle of Wight, 304; summer, in the Isle of Wight, 334
 Migration, autumn, of birds in 1878,

- 41; further notes on, 126; of House Martins, 340
 Migratory waders, 157
 Miller, H., and S. B. J. Skertchly, 'The Fenland, Past and Present' (review), 69
Milvus regalis, 275
 Mollusca, 15; land and freshwater, of Mayo and Sligo, 25; terrestrial, *id.*; aquatic, 28; land and freshwater, of the Maltese group, 193
 Monster Bream in Norfolk, 342
 'Moore's Columbarium, or the Pigeon House' (review), 152
 Moorhen, 290, 481; curious death of a, 428
 Mortality amongst Shrews, 124, 173
 Moseley, H. N., 'Notes by a Naturalist on the "Challenger"' (review), 224
 Mosenthal, Julius de, and J. E. Harting, 'Ostriches and Ostrich Farming' (review), 496
Motacilla boarula, 280
 „ *Rayii*, *id.*
 „ *Yarrellii*, *id.*
Motella quinquecirrata, 476
 „ *vulgaris*, *id.*
 Moults of birds, single and complete, in autumn, 82; double or spring, *id.*; summer, 83; triple, 84
Muscicapa grisola, 275
 Mussel, Pearl, 28
 „ Swan, *id.*
Mustela erminea, 4
 Naples, Zoological Station at, 455
 Natural History of Prince Albert Land, 1; notes in Holland, 9; the teaching of, 299
 'Natural History of Selborne, and the Naturalist's Calendar' (review), 494
 'Natural History Scraps' (review), 391
 Naturalist, the, in Nidderdale, 353, 403
 Neritidæ, 28
Neritina fluviatilis, *id.*
 Nest, Adder taking possession of a, 429
 Nesting of Cole Tit on the ground, 32, 134; of Pied Flycatcher, 132; of Honey Buzzard, *id.*; of Swallows and House Martins, 157; of the Grey Wagtail in Oxfordshire, 179; of the Hawfinch in Yorkshire, 180; of the Tufted Duck in Scotland, *id.*; of Blue Tit in the ground, 219; of Montagu's Harrier in Yorkshire, 220; of Ring Ouzel in Essex, 267; early, of the Water Rail, 268; of the Stock Dove, 338; of the Starling, 341; of Blackgame in Wolmer Forest, 425; of Tawny Owl in a burrow, 427; supposed, of Redwing near York, 460; reported, of the Golden Eagle in Shetland, 461; late, of Yellowhammer, 490
 Nests, vacant, of House Martins, Wrens nesting in, 182
 Neves, D. Fernandez das, 'A Hunting Expedition to the Transvaal' (review), 384
 Newts, Kingfisher feeding on, 32; British, 61
 Nidderdale, the naturalist in, 353, 403
 Nightingale, 277
 Nightjar, 289
 'Norfolk and Norwich Naturalists' Society' (review), 471
 Notes, Natural History, in Holland, 9; from an Arctic Journal, 16, 50, 89, 162, 200; on migration, 126; from Dublin, 131
 Nuthatch, 279, 289; attempted introduction of into Ireland, 424
 Oriole, Golden, in Co. Donegal, 306; in Suffolk, 341
 Orioles, supposed Golden, 154
 Ornithological notes from Aldeburgh, 301; from Devon and Cornwall, 112, 205, 418; from Norfolk, 153; from North Lincolnshire, 371; from Oxfordshire, 129; from Redcar, 210; from St. Leonards, 376; from Somersetshire, 127; from Thorpe, 265; from West Cumberland, 116, 488; from West Sussex, 109
 Ospreys, 156
 Ossiferous cavern near Cappagh, Co. Waterford, 331
 'Ostriches and Ostrich Farming' (review), 496

- Otter, young, in December, 122; breeding of the, 172
 Otters, in Berkshire, 263; in Suffolk, 301
 Ouzel, Ring, wintering in England, 203, 266; nesting in Essex, 267; song of, *id.*; in Regent's Park, 277; in Ireland, 450
 Ouzel, Water, *id.*
 Ovibus moschatus, 4
 Owl, Barn, 275, 449
 „ Eagle, in Lincolnshire, 306
 „ Little, in Somersetshire, 32
 „ Long-eared, 449
 „ Short-eared, *id.*
 „ Tawny, nesting in a burrow, 427
 Owls, Barn, and Shrew Mice, 341
 „ Short-eared, extraordinary assemblage of, 490
 Oyster-catcher in Portland during the breeding season, 304; in Ireland, 480
 Pagrus vulgaris, 476
 Paludina? (Amnicola?) melitensis, 196
 Paludinidae, 28
 Parrot, night, New Zealand, 320
 Partridge, 477
 Parus ater, 280
 „ *cæruleus*, *id.*
 „ *caudatus*, *id.*
 „ *major*, *id.*
 „ *palustris*, *id.*
 Passer domesticus, 282
 Pectinibranchiata, 28
 Peewit, 480
 Pelican, visit to a breeding-place of the, 213
 Perodicticus potto, 327
 Petrel, Fulmar, breeding in the Isle of Foula, 380, 422; at Redcar, 490
 Phalarope, Grey, 290; in Bedfordshire, 459; in Ireland, 480
 Phalaropus hyperboreus, 7
 Pheasant, 477
 Pheasant and Blackcock, hybrid, 60
 Physa fontinalis, 29
 „ *hypnorum*, *id.*
 „ *melitensis*, 199
 Pica caudata, 288
 Picus major, *id.*
 „ *minor*, *id.*
 'Pigeon House, or Moore's Columbarium' (review), 152
 Pigeons, Wood, destruction of in Scotland, 428
 Pike, Large, in Galloway, 307
 Pilchard, Large, 62
 Pilot-fish in Mount's Bay, Cornwall, 306
 Pintail, 482
 Pipit, Meadow, 454
 „ *Rock*, *id.*
 „ *Tree*, 280
 Pisidium fontinale, 28, 196
 „ *nitidum*, 28
 „ *pusillum*, *id.*
 „ *roseum*, *id.*
 Planorbis albus, 29
 „ *contortus*, *id.*
 „ *glaber*, *id.*
 „ *nautileus*, *id.*
 „ *spirorbis*, *id.*
 Plover, Golden, 480
 „ *Great*, at the Scilly Isles, 61
 „ *Green*, 480
 „ *Grey*, *id.*
 „ *Ringed*, *id.*
 'Poacher, the Amateur' (review) 493
 Pochard, 482
 „ *White-eyed*, 159
 Podiceps minor, 291
 Polecat in Bedfordshire, 264
 Porphyrio, Green-backed, at Barton, 458
 Porzana Bailloni, 11
 Potto, Van Bosman's, 327
 Procellaria glacialis, 8
 Puffin, 484; white, 491
 Puffins, 159
 Pulmonobranchiata, 29
 Pupa granum, 199
 „ *marginata*, 27
 „ *ringens*, *id.*
 „ *umbilicata*, *id.*
 "Puss," origin of the name, 487
 Pyrrhula vulgaris, 284
 Quail, 477
 Rabbit swimming, 210
 Rail, Water, 480; early nesting of, 268
 Raptorial migrants, 160
 Rats, black, in North Lancashire, 334

- Raven, 285, 451
 Razorbill, 481
 Redbreast, 277
 Redpoll, Lesser, 154, 284, 452
 Redpolls, 159
 Redshank, 479
 Redstart, 279
 " Black, in Essex, 306
 Redwing, 276, 450; supposed nest-
 ing of near York, 460
 Reeve in Dorsetshire in December,
 134
 Regulus cristatus, 279
 Robin, 450
 Roe-deer in Dorsetshire, 120, 170,
 209, 262, 263, 301
 Rook, 286, 452
 Rookeries of London, 268
 Rooks eating small birds, 134; immi-
 gration of at Harwich, 459
 Roosting habits of the Starling, 215
 Rorqual, large, on the coast of Corn-
 wall, 124
 Rowley, George Dawson, death of, 33
 Rutililla phœnicurus, 279

 St. John, Charles, 'Wild Sports and
 Natural History of the Highlands'
 (review), 146
 Salicaria arundinacea, 279
 " phragmitis, *id.*
 Salmo arcturus, 22
 Sanderling, 155, 480; variety of, 460
 Sandpiper, common, 479
 " Curlew, discovery of the
 eggs of, 425; in Ireland, 479
 " Purple, 479
 Saxicola cœnanthe, 279
 Scaup, 482
 Scilly Isles, the past shooting season
 at the, 130
 Scolopax gallinago, 290
 " rusticola, *id.*
 Scoter, 220, 426, 427, 489
 " Surf, in Orkney, 335
 Scyllarus arctus, 473
 Scyllium catulus, 476
 Sea-weeds, red, fertilisation of by
 animalculæ, 393
 Shag, 485, 489
 " Green, in Northamptonshire,
 426
 Sheldrake, 482
 Shell, Banded Twist, 27
 " Common Valve, 29
 " Crested Valve, *id.*
 " Common Varnished, 27
 " Dark Close, *id.*
 " Dwarf Whorl, *id.*
 " Fragile Moss, *id.*
 " Glossy Pea, 28
 " Little Pea, *id.*
 " Little Sedge, 27
 " Margined Chrysalis, *id.*
 " Marsh Mud, 29
 " Marsh Whorl, 27
 " Narrower Whorl, *id.*
 " Nautilus Coil, 29
 " Pond Mud, *id.*
 " Rosy Pea, 28
 " Round-spined Coil, 29
 " Slender Bubble, *id.*
 " Slightly striate Whorl, 27
 " Smooth Coil, 29
 " Stream Bubble, *id.*
 " Stream Pea, 28
 " Toothless Whorl, 27
 " Transparent Glass, 26
 " Truncate Mud, 29
 " Twisted Coil, *id.*
 " Umbilicated Chrysalis, 27
 " Wandering Mud, 29
 " White Coil, *id.*
 Shark, Fox, off the coast of Devon, 383
 Shearwater Manx, 15, 426, 457, 487
 'Shooting Adventures, Canine Lore
 and Sea-fishing Trip' (review), 147
 Shoveller, 482; at Redcar, 488
 Shrews observed in Norfolk, 123;
 mortality amongst, 124, 173
 Shrike, Great Grey, 136, 181, 275
 Siskin, 284
 Siskins, 159, 453
 Sitta cœsia, 279
 " europæa, 289
 Skua, 487
 " Great, 134, 455
 Skuas in Oxfordshire, 490
 Slug, Black, 25
 " Brown, *id.*
 " Field, *id.*
 " Garden, *id.*
 " Great, 26
 " Sowerby's, 25

- Slug, Tree, 26
 Smith, Cecil, 'The Birds of Guernsey and the Neighbouring Islands' (review), 387
 Snail, Bristly, 26
 " Cellar, *id.*
 " Clear-shelled, *id.*
 " Common Garden, *id.*
 " Crystalline, *id.*
 " Glossy, *id.*
 " Heath, 27
 " Little Wall, *id.*
 " Prickly, 26
 " Pygmy, 27
 " Rounded, *id.*
 " Rufescent, 26
 " Shining, *id.*
 " Silky, *id.*
 " Tawny, *id.*
 " White, 27
 " Wood, 26
 " Wrinkled, *id.*
 Snipe-catching in Dorsetshire, 181
 Snipe, Brown, 290
 " Common, 290, 478
 " Jack, 478
 " Sabine's, in Lancashire, 30; curious haunt for a, 135
 Somateria mollissima, 9
 " spectabilis, *id.*
 Song of Ring Ouzel, 267
 Sparrow, House, 282; habits of, 381; migration of, 453
 Sparrowhawk, 275, 449
 Sphæriidæ, 28
 Sphærium corneum, 28
 'Spiders of Dorset' (review), 470
 Spoonbills, 156
 Spotted Flycatcher, anecdote of the, 334
 Spring call of the Knot, 178
 Squirrel in Scotland, 122
 Starling, 284, 452
 Starling, roosting habits of, 215; nesting habits of, 341, 382
 Starlings destroying Larks' eggs, 31, 181; rearing two broods in a season, 218
 Stercorarius cephus, 8
 Sterna arctica, 7
 " hirundo, 291
 " macrura, 18
 Stint, Little, and other birds in Sheppy, 216
 Stoats and the late severe weather, 122; assuming the ermine dress, 208, 264
 Stonechat, 451
 Stonechats in winter, 159
 Storrer, John, M.A. (the late) 'The Wild White Cattle of Great Britain' (review), 350
 Straits of Magellan, the 'Alert' in the, 260
 Strepsilas interpres, 6
 Stringops habroptilus, 320
 Strix flammea, 275
 " nyctea, 5
 Sturgeon in the Thames and Medway, 383
 Sturnus vulgaris, 284
 Succineea elegans, 26
 " putris, vital tenacity of, 62
 Sun-fish, Short, in Mount's Bay, 306
 Swallow, 289, 454
 Swallows and House Martins, nesting of, 157
 Swan, 481
 " Bewick's, in Somersetshire, 173
 Swift, 289, 454
 " Alpine, at Finchley, 489
 Swifts, large flight of, 382; late stay of, 423
 Sword-fish on the Cornish coast, 307; on the Norfolk coast, 342
 Sylvia atricapilla, 279
 Syngnathus breviceudatus, 476
 Teal, 482
 Tern, Arctic, 18, 485
 " Black, 10, 383, 485
 " Common, 291, 485
 " Lesser, 485
 " Noddy, *id.*
 " Roseate, 486
 Terns at Redcar, 490
 Tetrao rupestris, 6
 " saliceti, *id.*
 Thick-knee at the Scilly Isles, 61
 Thresher off the coast of Devon, 383
 Thrush, Missel, 275, 450
 " Song, 276, 450
 " White's, in Berwickshire, 133, 177; note on, 177

- Tit, Blue, nesting in the ground, 219
 „ Cole, nesting on the ground, 32, 134
 Titmouse, Bearded, 305
 „ Blue, 280, 451
 „ Cole, 280, 451
 „ Great, 280, 451
 „ Long-tailed, 280
 „ Marsh, *id.*
 Torpedo or Cramp Ray, capture of at Beer, Devon, 491
 'Transvaal, Hunting Expedition to the' (review), 384
 'Trees, Our Woodland' (review), 230
 Tringa canutus, 7, 163
 „ douglasii, 7
 „ maritima, *id.*
 „ pectoralis, *id.*
 „ pusilla, *id.*
 „ rufescens, *id.*
 „ Schinzii, 6
 „ sp. ? 7
 Troglodytes vulgaris, 288
 Turdus iliacus, 276
 „ merula, *id.*
 „ musicus, *id.*
 „ pilaris, *id.*
 „ torquatus, 277
 „ viscivorus, 275
 Turnstone, 480
 Tweeddale, Marquis of, death of, 63
 Twite, 452

 Unio margaritifer, 28
 Unionidæ, *id.*
 Univalves (Gasteropoda), 25
 Ursus maritimus, 4

 Valvata cristata, 29
 „ piscinalis, *id.*
 Valvatidæ, *id.*
 Vanellus melanogaster, 6
 Varieties of the Hedgehog, Badger, and Mole, 172
 Variety of Black-headed Bunting, 158; of the Hedgehog, 172; of Robin, 450; of Sanderling, 460; of Puffin, 491
 Vertigo angustior, 27
 „ antivertigo, *id.*
 „ edentula, *id.*
 „ pygmæa, *id.*
 Vertigo substriata, 27
 Visitants, winter, at Harwich, 182; and spring migrants to the Isle of Wight, 304
 Visitors, rare, to the Malvern Hills, 174
 Vitrina pellucida, 26
 Vole, Bank, near Exeter, 264
 „ Red Field, in Devonshire, 487

 Waders killed in the "Close-time," 155; migratory, 157
 Wagtail, Grey, nesting in Oxfordshire, 179; in Regent's Park, 280; gregarious at roosting time, 427; in Ireland, 451
 „ Pied, 280, 451
 „ Ray's, 280
 Wagtails observed in Holland, 132
 'Wanderings in South America' (review), 143
 Warbler, Garden, 279
 „ Marsh, 12
 „ Reed, 12, 279
 „ Savi's, 13, 154
 „ Sedge, 279, 451
 Waterhen, 481
 Waterton, Charles, 'Wanderings in South America' (review), 143
 Waxwing at Banff, 217
 Waxwings, 158
 Weasel assuming a white winter coat, 30; an albino, 455
 Whale, Pilot, on the Norfolk coast, 125
 Wheatear, 279, 450
 „ Black-throated, 30
 Whimbrel, 478
 Whinchat, 450
 Whitethroat, 451
 „ Greater, 279
 „ Lesser, *id.*
 Widgeon, 482
 Wildfowl in West Cumberland, 60; in County Mayo, 126; in the Poole district, 213
 'Wild Life in a Southern County' (review), 191
 'Wild Sports and Natural History of the Highlands' (review), 146
 Windhover, 275
 Woodcock, 290, 478: on some little-known habits of the, 433

CONTENTS.

xix

Woodpecker, Great Spotted, 268, 288	Yunx torquilla, 288
„ Lesser Spotted, 155, 288	
„ Little, 156	Zonites cellarius, 26
Wren, 288	„ crystallinus, <i>id.</i>
„ Golden-crested, 279, 451	„ fulvus, <i>id.</i>
„ Willow, 279, 451	„ nitidulus, <i>id.</i>
„ Wood, 279; in Wicklow, 341	„ nitidus, <i>id.</i>
Wrens roosting, 135; roosting in	„ purus, <i>id.</i>
vacant nests of House Martins, 182	Zoological Society of London, pro-
Wryneck, 288	ceedings, 36, 65, 140, 186, 223,
	269, 309, 345
Yellowhammer, 453; late nesting, 490	Zoological Station at Naples, 455

LIST OF ILLUSTRATIONS.

PLATE I. { The change of colour in Birds through „ II. { and irrespective of Moulting.	} To face page 81
„ III. Woodcock carrying its young (see p. 433).	To face Title.
New Zealand Night Parrot, <i>Stringops habroptilus</i> , Gray.	- Page 320
Collared Fruit Bat, <i>Cynonycteris collaris</i> , female, showing mode of carrying young.	} „ 324
Van Bosman's Potto, <i>Perodicticus potto</i> , Gmelin.	- - „ 327
Fertilisation of Red Sea-weeds by Animalculæ :—	
FIG. 1.	- - - - - „ 396
„ 2.	- - - - - „ 397
„ 3.	- - - - - „ 398
„ 4.	- - - - - „ 400
Lobster-like Crustacean, <i>Scyllarus arctus</i> , Linn.	- - „ 473